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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
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| 09/843,941 | 04/30/2001 | James F. Hemerick | 6530.0278 | 8636 |
| 22852 | 7590 11/24/2004 | | EXAMINER | |
| FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW | | | THALER, MICHAEL H | |
| | | | ART UNIT | PAPER NUMBER |
| WASHINGTON, DC 20005 | | 3731 | | |

DATE MAILED: 11/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | | |
|--|---|--|--|--|--|
| | 09/843,941 | HEMERICK ET AL. | | | |
| Office Action Summary | Examiner | Art Unit | | | |
| | Michael Thaler | 3731 | | | |
| The MAILING DATE of this communication app Period for Reply | ears on the cover sheet with the c | orrespondence address | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 16(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | |
| 1)⊠ Responsive to communication(s) filed on <u>07 Oc</u> | ctober 2004. | • | | | |
| 2a) ☐ This action is FINAL . 2b) ☐ This | action is non-final. | | | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | |
| closed in accordance with the practice under E. | x parte Quayle, 1935 C.D. 11, 45 | 3 O.G. 213. | | | |
| Disposition of Claims | | • | | | |
| 4) ☐ Claim(s) 11,45,47-57,59-65,67 and 68 is/are per 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11,45,47-57,59-65,67 and 68 is/are re 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or | n from consideration. | | | | |
| Application Papers | | | | | |
| 9)☐ The specification is objected to by the Examiner | • | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | |
| Applicant may not request that any objection to the d | | | | | |
| Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11. | , | · · | | | |
| Priority under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign a a All b Some * c None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of | have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)). | on No d in this National Stage | | | |
| Attachment(s) | | | | | |
| 1) Notice of References Cited (PTO-892) | 4) Interview Summary (| | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date | Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other: | te atent Application (PTO-152) | | | |

Art Unit: 3731

Claims 11, 45, 48, 50-53 and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seguin et (6,666,883) in view of Sullivan et al. (5,968,052). Sequin et outer tubular structure 16, disclose inner structure 15, stent accommodating area (just distal to the abutment described in col. 5, lines 28-34) and an external tubular structure contact area (the abutment described in col. 5, lines 28-34) which slides against the interior surface of the outer tubular structure 16 since it is radially enlarged relative to the remainder of inner structure 15. et al. fail to disclose a translucent region at the distal end of the outer tubular structure 16. However, Sullivan et al. teach that the outer tubular structure 14 of a stent delivery system should transmit light therethrough (i.e. be translucent) so that the stent therein may be visually inspected (col. 3, lines 24-33). It would have been obvious to make the outer tubular structure 16 of Seguin et al. translucent so that it too would have this advantage. With this modification, the Sequin al. translucent outer tubular structure 16 would include translucent region (between radiopaque rings 21 and 22, for example) which would have a length less than the constrained length of stent 1 as claimed, since radiopaque rings 21 and 22, (like radiopaque rings 42 and 44 on translucent outer tubular

Art Unit: 3731

structure 14 of Sullivan et al.) are not translucent and thus define ends of a translucent region. Note that the transparent material of Sullivan et al. is inherently translucent to some extent since no material is perfectly transparent. As to claims 48 and 50, Seguin et al. fail to disclose at least one marker band on the inner elongated structure. However, Sullivan et al. teach that the inner elongated structure of a stent delivery system should include a marker band (e.g. 36) in order to provide an indication of the position of the stent (col. 3, lines 1-13). It would have been obvious to include a marker band on the inner elongated structure 12 of Seguin et al. so that it too would have this advantage. As to claim 51, Sequin et al. fail to disclose the steps of retracting the stent back into the outer tubular structure and then repositioning the stent delivery system. However, retracting the Sequin et al. stent back into the outer tubular structure and repositioning the stent delivery system when it is determined that the stent is not initially properly positioned would have been obvious since it was well known in this art to so retract and reposition stents for this reason. As to claim 53, Seguin et al. fail to show Pellethane as the material for the inner tubular structure. However, using Pellethane as the material for the inner tubular structure would have been obvious since it

Art Unit: 3731

is well known as a desirable material for this use as indicated on page 2, lines 8-10 of applicant's specification. The above well known in the art statements are taken to be admitted prior art because applicant failed to traverse the examiner's assertions (M.P.E.P. 2144.03).

Claims 47 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seguin et al. (5,306,294) in view of Sullivan et al. (5,968,052) as applied to claims 11, 45, 48, 50-53 and 61 above, and further in view of Hofmann et (5,810,837). Seguin et al. fail to disclose a gap between an external surface of the external tubular structure and the inner surface of the outer tubular structure 20. However, Hofmann et al. teach that there should be a gap between the external surface of the external tubular structure 10 and the inner surface of the outer tubular structure 3 (the outer diameter C of member 10 is 4.5 mm while the inner diameter B of outer tubular structure 3 is 4.6 mm as indicated in col. 4, line 38) apparently in order to insure that the inner elongated structure 10, 9, 7 is able to slide relative to outer tubular structure 3 with minimal friction. It would have been obvious to provide such a gap between the Sequin et al. external surface of the external tubular structure and the inner surface of the outer tubular structure 16 so that it too would have this advantage.

Art Unit: 3731

Claims 54, 55, 62 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seguin et al. (5,306,294) in view of Sullivan et al. (5,968,052) as applied to claims 11, 45, 48, 50-53 and 61 above, and further in view of Winston et al. (5,306,294). Seguin et al. disclose only a single external tubular contact area rather than a plurality of external tubular contact areas. However, Winston et al. teach that an inner structure of a stent delivery device should include a plurality of external tubular contact areas 14 in order to obtain the advantage of locating stents therebetween so that a plurality of stents can be deployed from a single delivery device (col. 4, lines 50-60). It would have been obvious to include a plurality of external tubular contact areas on the Seguin et al. inner elongated structure 15 so that it too would have this advantage.

Claims 56, 57, 59, 60, 64, 65, 67 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Seguin et al. (5,306,294) in view of Sullivan et al. (5,968,052) and Winston et al. (5,306,294) as applied to claims 54, 55, 62 and 63 above, and further in view of Burns (5,100,381). Seguin et al. fail to disclose each subsequently proximal external structure increasing in durometer. However, Burns teaches that the distal portion of a catheter should be more flexible than the proximal portion in order to allow the catheter to be advanced through

Art Unit: 3731

the rather tortuous paths of the arteries while maintaining pushability (col. 2, lines 30-34 and col. 3, line 65 to col. 4, line 6). It would have been obvious to make the distal portion of the Seguin et al. catheter 15 more flexible than the proximal portion so that it too would have this advantage. With this modification, the distal portion of the Seguin et al. catheter 15 (which would include a distal flange) would be made of a material which is more flexible (with a low durometer) than a proximal portion of the catheter 15 (which would include a proximal flange) made of a high durometer, stiffer material.

Applicant's arguments with respect to claims 11, 45, 47-57, 59-65, 67 and 68 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened

Art Unit: 3731

Page 7

statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Thaler whose telephone number is (571)272-4704. The examiner can normally be reached Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on (571)272-4963. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

mht 11/19/04 MICHAEL THALER PRIMARY EXAMINER ART UNIT 3731